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STATE OF MICHIGAN  
DEPARTMENT OF ENERGY, LABOR & ECONOMIC GROWTH  
Michigan Occupational Safety & Health Administration  
(MIOSHA)

STANLEY "SKIP" PRUSS  
DIRECTOR

## MEMORANDUM

**DATE:** January 27, 2009

**TO:** Brenda Perry  
Financial Analyst

**FROM:** Douglas J. Kalinowski *DJK*  
Director

**SUBJECT:** Legislative Report

Section 317 of Public Act 251 of the 2008 budget boilerplate, requires that by February 1, 2009, a report is provided to the appropriate house and senate appropriations subcommittees and the fiscal agencies "on the number of individuals killed and the number of individuals injured on the job within industries regulated by MIOSHA during the preceding calendar year."

Attached is the report that includes the 2008 "program-related" fatality counts and the number of occupational injuries and illnesses by industry, projected from the 2007 U.S. Bureau of Labor Statistics (BLS) survey. As you know, employers are not required to report all occupational injuries and illnesses. Therefore, the data that most closely approximates "individuals injured" are the data from the survey that was conducted during 2008 and reports 2007 injuries and illnesses.

Please contact me at (517) 322-1817, if you have any questions or need additional information.

LL:DJK  
Attachment

cc: Stanley F. Pruss  
Martha Yoder  
John Peck  
Robert Kieffer  
Kevin Caslavka

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**REPORT TO THE LEGISLATURE**

**OCCUPATIONAL INJURIES, ILLNESSES**  
**AND FATALITIES IN MICHIGAN**

**Developed by**  
**Michigan Occupational Safety and Health Administration (MIOSHA)**  
**Michigan Department of Energy, Labor & Economic Growth**

**January 2009**

# **MICHIGAN OCCUPATIONAL INJURIES, ILLNESSES AND FATALITIES**

**JANUARY 2009**

## **INTRODUCTION**

The information that follows is presented in response to Section 317 of Public Act 251 of 2008. This section requires that the Department of Energy, Labor & Economic Growth, Michigan Occupational Safety and Health Administration (MIOSHA), provide an annual report by February 1 of each year "...to the appropriate house and senate appropriations subcommittees and the fiscal agencies on the number of individuals injured on the job within industries related to MIOSHA during the preceding calendar year."

## **"PROGRAM-RELATED" FATALITIES**

The agency records "program-related" fatalities. In general, this means that the incident related to the fatality may have resulted from a hazard or hazards that occurred based upon a failure to adhere to one or more Michigan Occupational Safety and Health Administration (MIOSHA) requirements. There were 37 such fatalities in Michigan during calendar year 2008. (See following table for data and definitions.)

## **WORKPLACE INJURIES AND ILLNESSES**

A complete census of occupational illnesses and injuries for Michigan does not exist. However, the agency cooperates with the U.S. Bureau of Labor Statistics to sample Michigan's employers to produce annual estimates of the number of occurrences of work-related illness and injuries. The 2008 survey collected the 2007 illness and injury occurrences of 7,000 Michigan employers. The employer sample was stratified by industry and the results were used to project total occurrence estimates. The seven-page table that follows the fatality data presents the results. Footnotes at the end of the table provide additional information about the methodology used. The sample excludes self-employed individuals, railroads, selected mining industries and the federal government.

## **INQUIRIES**

Questions about these data may be directed to the Management Information Systems Section, MTSD, Michigan Occupational Safety and Health Administration (MIOSHA) (517) 322-1850.

**MIOSHA Program-Related Fatalities  
Calendar Year 2008**

<b>General Industry Safety and Health</b>	<b>22</b>
<b><u>Construction Safety and Health</u></b>	<b><u>15</u></b>
<b>TOTAL</b>	<b>37</b>

**Note: Data current as of 01/26/09.**

**Source: Management Information Systems Section, MTSD, Michigan Department of Energy, Labor & Economic Growth**

**NOTE: A fatality is recorded as “program-related” if the deceased party was employed in an occupation included in MIOSHA jurisdiction as defined in Public Act 154 of 1974, as amended, and the fatality appears to be related to one or more of the following conditions:**

1. The incident was found to have resulted from violations of MIOSHA safety and health standards or the general duty clause.
2. The incident was considered to be the result of a failure to follow a good safety and health practice that would be the subject of a safety and health recommendation.
3. The information describing the incident is insufficient to make a clear distinction between a “program-related” and “non-program-related” incident, but the type and nature of the injury indicates that there is a high probability that the injury was the result of a failure to adhere to one or more MIOSHA standards, the general duty clause, or good safety and health practice.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2007

Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2007 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
<b>All industries including State and local government<sup>5</sup></b> .....		4,145.4	162.6	78.2	38.7	39.5	84.3
<b>Private industry<sup>5</sup></b> .....		3,591.5	139.6	67.4	32.2	35.2	72.2
<b>Goods producing<sup>5</sup></b> .....		832.9	55.2	27.1	11.5	15.6	28.1
<b>Natural resources and mining<sup>5,6</sup></b> .....		27.0	1.0	0.4	0.3	0.1	0.6
<b>Agriculture, forestry, fishing and hunting<sup>5</sup></b> .....	11	20.6	0.9	0.3	0.2	0.1	0.5
Crop production <sup>5</sup> .....	111	12.8	0.5	0.2	--	( <sup>9</sup> )	0.3
Animal production <sup>5</sup> .....	112	4.0	0.2	0.1	0.1	0.1	0.1
Support activities for agriculture and forestry .....	115	2.1	0.1	0.1	0.1	( <sup>9</sup> )	0.1
<b>Mining<sup>6</sup></b> .....	21	6.4	0.2	0.1	0.1	( <sup>9</sup> )	0.1
<b>Construction</b> .....		171.1	8.8	3.3	2.5	0.8	5.5
<b>Construction</b> .....	23	171.1	8.8	3.3	2.5	0.8	5.5
Construction of buildings .....	236	39.8	2.0	0.7	--	0.2	1.3
Heavy and civil engineering construction .....	237	17.3	0.6	0.2	0.2	0.1	0.4
Specialty trade contractors .....	238	114.0	6.2	2.4	1.8	0.5	3.9
<b>Manufacturing</b> .....		634.8	45.4	23.4	8.7	14.7	22.0
<b>Manufacturing</b> .....	31-33	634.8	45.4	23.4	8.7	14.7	22.0
Food manufacturing .....	311	33.4	2.1	1.2	0.5	0.7	0.9
Beverage and tobacco product manufacturing .....	312	4.5	0.4	0.3	0.1	0.2	0.1
Textile product mills .....	314	2.5	0.1	0.1	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
Wood product manufacturing .....	321	10.4	0.8	0.4	0.2	0.2	0.4
Paper manufacturing .....	322	13.7	0.8	0.4	0.3	0.2	0.4

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2007 -- Continued

## Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2007 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Printing and related support activities .....	323	17.7	0.6	0.3	0.2	0.2	0.2
Petroleum and coal products manufacturing .....	324	1.3	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
Chemical manufacturing .....	325	28.4	1.0	0.6	0.3	0.3	0.5
Plastics and rubber products manufacturing .....	326	40.0	3.2	1.8	0.5	1.2	1.4
Nonmetallic mineral product manufacturing .....	327	14.4	1.4	0.8	0.3	0.5	0.6
Primary metal manufacturing .....	331	25.4	2.2	1.1	0.5	0.5	1.1
Fabricated metal product manufacturing .....	332	81.8	7.3	3.5	1.8	1.7	3.7
Machinery manufacturing .....	333	71.0	4.5	2.0	0.8	1.2	2.5
Computer and electronic product manufacturing .....	334	21.0	0.8	0.4	0.1	0.3	0.4
Electrical equipment, appliance, and component manufacturing .....	335	10.6	0.3	0.2	0.1	0.1	0.1
Transportation equipment manufacturing .....	336	212.3	17.5	9.1	2.6	6.6	8.4
Furniture and related product manufacturing .....	337	25.5	1.3	0.7	0.3	0.4	0.6
Miscellaneous manufacturing .....	339	18.2	0.9	0.4	0.1	0.3	0.5
<b>Service providing .....</b>		<b>2,758.6</b>	<b>84.3</b>	<b>40.3</b>	<b>20.6</b>	<b>19.6</b>	<b>44.1</b>
<b>Trade, transportation, and utilities<sup>8</sup> .....</b>		<b>787.3</b>	<b>32.2</b>	<b>19.3</b>	<b>9.4</b>	<b>9.9</b>	<b>12.9</b>
<b>Wholesale trade .....</b>	<b>42</b>	<b>169.3</b>	<b>7.5</b>	<b>5.0</b>	<b>2.1</b>	<b>2.8</b>	<b>2.5</b>
Merchant wholesalers, nondurable goods .....	424	48.8	2.6	1.7	0.8	0.9	0.9
Wholesale electronic markets and agents and brokers .....	425	23.8	0.2	0.1	( <sup>9</sup> )	0.1	0.1
<b>Retail trade .....</b>	<b>44-45</b>	<b>493.7</b>	<b>16.9</b>	<b>9.3</b>	<b>4.7</b>	<b>4.6</b>	<b>7.6</b>
Motor vehicle and parts dealers .....	441	57.9	2.4	1.2	0.8	0.4	1.2
Furniture and home furnishings stores .....	442	17.1	0.6	0.4	0.2	0.1	0.2
Electronics and appliance stores .....	443	17.1	0.2	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	0.2
Building material and garden equipment and supplies dealers .....	444	44.2	2.1	1.0	0.3	0.7	1.1
Food and beverage stores .....	445	82.7	3.5	1.8	1.0	0.9	1.6
Gasoline stations .....	447	25.1	0.4	0.2	0.1	0.1	0.2
Clothing and clothing accessories stores .....	448	42.1	0.8	0.2	0.2	( <sup>9</sup> )	0.5
Sporting goods, hobby, book, and music stores .....	451	23.9	0.5	0.1	( <sup>9</sup> )	( <sup>9</sup> )	0.5
General merchandise stores .....	452	112.6	5.0	3.6	1.5	2.0	1.4
Miscellaneous store retailers .....	453	27.6	0.6	0.2	0.1	0.1	0.3
Nonstore retailers .....	454	9.4	0.2	0.1	( <sup>9</sup> )	( <sup>9</sup> )	--

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2007 -- Continued

## Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2007 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
<b>Transportation and warehousing<sup>8</sup></b> .....	48-49	104.1	7.0	4.6	2.3	2.3	2.4
Air transportation .....	481	14.3	1.1	0.9	0.3	0.6	0.2
Rail transportation <sup>8</sup> .....	482	--	0.1	0.1	0.1	( <sup>9</sup> )	( <sup>9</sup> )
Truck transportation .....	484	40.5	2.5	1.6	1.0	0.5	0.9
Transit and ground passenger transportation .....	485	5.2	0.2	0.1	0.1	( <sup>9</sup> )	0.1
Pipeline transportation .....	486	1.2	0.1	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	0.1
Support activities for transportation .....	488	15.2	1.0	0.6	0.3	0.3	0.4
Couriers and messengers .....	492	12.2	0.7	0.4	0.2	0.2	0.2
Warehousing and storage .....	493	14.4	1.3	0.9	0.3	0.6	0.4
<b>Utilities</b> .....	22	20.2	0.8	0.4	0.2	0.2	0.5
Utilities .....	221	20.2	0.8	0.4	0.2	0.2	0.5
<b>Information</b> .....		65.0	1.2	0.5	0.2	0.3	0.7
<b>Financial activities</b> .....		210.8	4.2	1.6	1.2	0.4	2.6
<b>Finance and insurance</b> .....	52	156.2	2.5	0.7	0.6	--	1.8
Monetary authorities - central bank .....	521	0.2	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
<b>Real estate and rental and leasing</b> .....	53	54.6	1.7	0.8	--	0.3	0.8
Real estate .....	531	37.8	1.3	0.6	--	0.2	--
Rental and leasing services .....	532	15.9	0.4	0.2	--	( <sup>9</sup> )	0.2
Lessors of nonfinancial intangible assets (except copyrighted works) .....	533	0.9	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
<b>Professional and business services</b> .....		578.5	8.6	3.3	1.8	1.4	5.3
<b>Professional, scientific, and technical services</b> .....	54	246.5	3.1	0.8	0.5	0.3	2.3
<b>Administrative and support and waste management and remediation services</b> .....	56	271.7	4.6	1.9	0.9	1.0	2.7

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2007 -- Continued

Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2007 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Administrative and support services .....	561	260.1	3.3	1.2	0.5	0.7	2.0
Waste management and remediation services .....	562	11.6	1.3	0.6	0.4	0.3	0.7
<b>Education and health services</b> .....		572.0	24.9	11.3	5.6	5.7	13.6
<b>Educational services</b> .....	61	60.7	0.9	0.3	0.2	0.1	0.6
Educational services .....	611	60.7	0.9	0.3	0.2	0.1	0.6
<b>Health care and social assistance</b> .....	62	511.4	24.1	11.0	5.4	5.6	13.1
Ambulatory health care services .....	621	175.6	2.8	0.8	0.6	0.2	2.0
Hospitals .....	622	185.6	13.0	4.9	2.3	2.6	8.0
Nursing and residential care facilities .....	623	92.5	6.5	4.1	1.8	2.3	2.4
Social assistance .....	624	57.6	1.8	1.1	0.6	0.5	0.7
<b>Leisure and hospitality</b> .....		414.8	10.6	3.1	1.6	1.5	7.5
<b>Arts, entertainment, and recreation</b> .....	71	62.8	2.1	1.1	0.6	0.5	1.0
Amusement, gambling, and recreation industries .....	713	49.4	1.1	0.6	0.4	0.2	0.5
<b>Accommodation and food services</b> .....	72	352.0	8.5	2.0	1.0	1.0	6.5
Accommodation .....	721	39.2	1.5	0.7	0.2	0.5	0.7
Food services and drinking places .....	722	312.8	7.0	1.3	0.8	0.5	5.7
<b>Other services</b> .....		130.2	2.7	1.2	0.8	0.4	1.4
<b>Other services, except public administration</b> .....	81	130.2	2.7	1.2	0.8	0.4	1.4
Repair and maintenance .....	811	38.6	1.5	0.5	--	0.2	1.0
Personal and laundry services .....	812	39.2	0.7	0.4	0.2	0.2	0.3
<b>State and local government</b> .....		553.9	23.0	10.9	6.6	4.3	12.1
<b>State government</b> .....		140.1	4.3	1.9	1.3	0.6	2.4

See footnotes at end of table.



Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2007 – Continued

## Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2007 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
<b>Service providing</b> . . . . .		140.1	4.3	1.9	1.3	0.6	2.4
<b>Education and health services</b> . . . . .		96.4	3.5	1.3	0.7	0.6	2.2
<b>Educational services</b> . . . . .	61	71.9	1.8	0.5	0.3	0.3	1.3
Educational services . . . . .	611	71.9	1.8	0.5	0.3	0.3	1.3
<b>Health care and social assistance</b> . . . . .	62	24.5	1.7	0.8	0.5	0.3	0.9
Hospitals . . . . .	622	15.5	1.1	0.5	0.2	0.3	0.7
Social assistance . . . . .	624	7.1	0.2	0.1	0.1	( <sup>9</sup> )	0.1
<b>Public administration</b> . . . . .		41.6	0.8	0.6	0.5	0.1	0.2
<b>Public administration</b> . . . . .	92	41.6	0.8	0.6	0.5	0.1	0.2
Justice, public order, and safety activities . . . . .	922	19.2	0.5	0.5	0.5	( <sup>9</sup> )	( <sup>9</sup> )
Administration of human resource programs . . . . .	923	5.3	0.1	0.1	( <sup>9</sup> )	--	0.1
<b>Local government</b> . . . . .		413.8	18.7	8.9	5.3	3.7	9.7
<b>Goods producing<sup>5</sup></b> . . . . .		5.4	0.6	0.2	0.1	0.1	--
<b>Service providing</b> . . . . .		408.4	18.1	8.8	5.2	3.6	9.4
<b>Trade, transportation, and utilities<sup>8</sup></b> . . . . .		5.4	0.5	0.3	0.3	( <sup>9</sup> )	0.2
<b>Transportation and warehousing<sup>8</sup></b> . . . . .	48-49	4.1	0.4	0.2	0.2	( <sup>9</sup> )	0.1
<b>Utilities</b> . . . . .	22	--	0.1	0.1	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
<b>Information</b> . . . . .		4.8	0.1	( <sup>9</sup> )	( <sup>9</sup> )	--	0.1
<b>Professional and business services</b> . . . . .		0.5	0.1	( <sup>9</sup> )	--	--	0.1

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2007 – Continued

Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2007 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
<b>Education and health services</b> .....		271.1	10.5	4.9	2.8	2.2	5.6
<b>Educational services</b> .....	61	248.8	8.6	3.9	2.3	1.6	4.7
Educational services .....	611	248.8	8.6	3.9	2.3	1.6	4.7
<b>Health care and social assistance</b> .....	62	22.3	1.9	1.0	0.4	0.6	0.9
Hospitals .....	622	13.4	1.0	0.3	0.2	0.1	0.7
Nursing and residential care facilities .....	623	6.4	0.8	0.7	0.2	0.5	0.2
<b>Leisure and hospitality</b> .....		1.7	0.1	0.1	( <sup>9</sup> )	0.1	0.1
<b>Public administration</b> .....		124.1	6.8	3.4	2.1	1.3	3.4
Public administration .....	92	124.1	6.8	3.4	2.1	1.3	3.4

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2007 -- Continued

Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2007 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Executive, legislative, and other general government support . . . . .	921	110.7	5.9	2.8	1.6	1.2	3.1
Administration of human resource programs . . . . .	923	7.9	0.3	0.1	0.1	( <sup>9</sup> )	0.2

<sup>1</sup> Totals include data for industries not shown separately.

<sup>2</sup> *North American Industry Classification System* -- United States, 2002 Edition

<sup>3</sup> Employment is expressed as an annual average and is derived primarily from the BLS-State Quarterly Census of Employment and Wages.

<sup>4</sup> Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction.

<sup>5</sup> Excludes farms with fewer than 11 employees.

<sup>6</sup> Data for mining (Sector 21 in the *North American Industry Classification System* -- United States, 2002) include establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in oil and gas extraction and related support activities. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable to estimates in other industries.

<sup>7</sup> Data for mining operators in this industry are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable to estimates in other industries.

<sup>8</sup> Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.

<sup>9</sup> Data too small to be displayed.

NOTE: Because of rounding, components may not add to totals. Dash indicates data do not meet publication guidelines.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses, in cooperation with participating State agencies.